Instructions to run our Model

1. Make sure you have the following packages installed:
    - Numpy
    - Theano- “pip install Theano”
    - Lasagne- “pip install -r https://raw.githubusercontent.com/Lasagne/Lasagne/v0.1/requirements.txt”
    - OpenCV-“conda install opencv” or “sudo apt-get install python-opencv”
2. Make sure you have Cuda driver installed on your computer/server. If not please install here- https://developer.nvidia.com/cuda-downloads
3. Verify you have installed Cudnn on your computer/server. If not, install here- https://developer.nvidia.com/cudnn
4. Update the Paths.py file in home directory and in SALGAN directory to contain the right paths as such:
    - “HOME_DIR”- directory where you’re running the primary script – “our_predictions.py”
    - “DIR_TO_SAVE”-directory where you want the output images to be saved.
    - “pathToImages”-directory where the input images are saved.
    - “pathToPickle”- see “HOME_DIR”
    - “PATH_TO_VGG19_WEIGHTS- see “HOME_DIR”

```
HOME_DIR = '/home/lior/Desktop/Project_Deep_Learning/scripts/'
DIR_TO_SAVE= '/home/lior/Desktop/Project_Deep_Learning/scripts/'
pathToImages = '/home/lior/Desktop/Project_Deep_Learning/images'
pathToPickle = '/home/lior/Desktop/Project_Deep_Learning/scripts'
PATH_TO_VGG19_WEIGHTS = '/home/lior/Desktop/Project_Deep_Learning/scripts/vgg19.pkl'
```

5. Change again the paths to input images and output images in “our_prediction.py” main function:

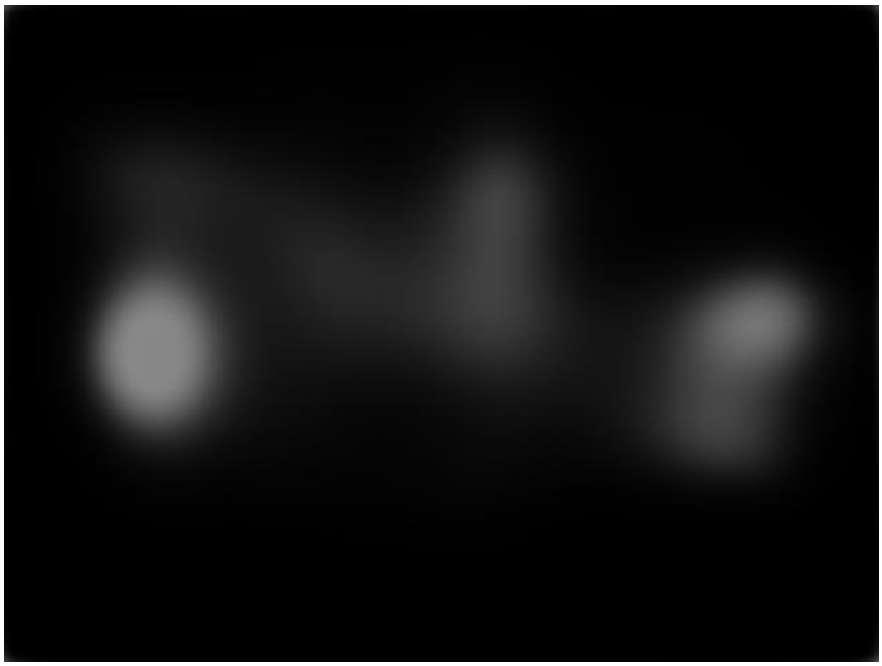
```
def main():
    model = ModelSALGAN(batch_size=32)
    test.load_weights(model.net['output'], path='gen_', epochtoload=90)
    test.make_test(path_to_images='/home/lior/Desktop/Project_Deep_Learning/images', path_output_maps='/home/lior/Desktop/', model_

if __name__ == "__main__":
```

6. Run “our_Prediction.py”
7. You should see for example like the sample we’ve provided
   See next page:

Input:

https://drive.google.com/open?id=1mQBu9prACx7vzUsb7fio64o_abZqyDNt

Output



https://drive.google.com/open?id=1e1gY4KpYxmlNngB0EKD7SYDJD1bAAHVh